Original/Duplicate/Triplicate AEE/KSD/SBR/195/16-17, dt- 2/11/16

CONTRACT CERTIFICATE

(For Other Works)

No. 1st & Final Bill

Date.....2016

Zone:BBMP,Yalahanka Division:BBMP, Byatarayanapura Sub-Division:BBMP, Kodigehalli

Bill Received No. 627 Dated 28/10/16 Divisional / Sub-Divisional

Cash Book Voucher No.....Dated.....

Job Code: 008-16-000008

Schedule Docket No. Head of Account: P3089 Est.Cost: Rs.49.00 Lakhs D.R.NO.:

Name of Work : Improvements to Roads and Drains at Sahakaranagara Surroundings in ward no. 8, kodigehalli sub-division

AS No.: JC/YNK/BBMP/28/15-16, dtd 20.08.2015 TS No.: CE/YNK/BBMP/43/15-16, dtd 21.08.2015

Name of Contractor and Full Address: Sri. K.R.Santosh Kumar., #4, 1st 'A' Main,V.Pura, AVR Block, Virupakahapura, Vidyaranyapura (P), Bangalore

Reference to Agreement No. EE/BTP/BBMP/E-PMT/01/2015-16 Date:01.09.2015

Certified that the measurements were taken by me on: 28/10/16 and recorded of Pages 190543 to 190548 of measurement Book No. 1906/2012-13 and that work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that measurement were taken by me on 28/10/2016 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Accont have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

1) Total value of work done or supplies made as per account within		
2) Deduct amount to be held in reserve being.....Percent Rs.....		
3) " Balance		
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... adjusted towards cash advance recovery of		
b) Payments cost store or other material supplied.		
Now made recovery of amount creditable to this /other work		
Amount paid on this bill Cheque/Cash.	Amount Total	47,16,003-00
	YT -	47160-00
	VAT -	188640-00
	Cess -	47160-00
	CBF -	4716-00
	LR -	50740-00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated .....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within	Adj.	48,416-00
9) Value of Government materials supplied.	Cheque:	43,67,587-00
Total amount adjusted		

Contractor's Signature

Received Rs.....(in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1

2

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Stamp

47,16,003-00

48,416-00

Executive Engineer

43,67,587-00

29/11/16

Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate Description
1	Hire charges of 100 KVA generator including operator, fuel, transportation and handling charges PWD SR 2013-14, P. L, I. 92 for pumping of stagnated water in existisng drain
2	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 138 / Item No. 19.1/ PWD SR 2014-15
3	Removing B.S Slab of Drain and stacking Page No. 25 / Item No. 5.32 / PWD SR 2014-15
4	Construction of embankment with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2 complete as per specifications which includes watering charges and compaction. (Page 144, Item No. 19.60 SR 2014-15)
5	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25 / Item No. 5.33 / PWD SR 2014-15
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (10.0 cms thick) (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2014-15.)
7	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2014-15
8	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2014-15
9	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 109 / Item No. 15.4 / PWD SR 2014-15
10	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2014-15
11	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15

Unit	Present Measurement			Total Upto Date	
	Qty	Rate Rs. P.	Amount	Qty	Cost
HR	60.00	400.00	24000.00	60.00	24000.00
Cum	1634.24	71.85	117420.00	1634.24	117420.00
sqm	8360.55	58.00	484912.00	8360.55	484912.00
Cum	814.05	160.00	130248.00	814.05	130248.00
sqm	5852.38	70.00	409653.00	5852.38	409653.00
sqm	2508.17	700.00	1755719.00	2508.17	1755719.00
Cum	26.46	950.00	25137.00	26.46	25137.00
Cum	55.22	900.00	49698.00	55.22	49698.00
Cum	25.31	4800.00	121488.00	25.31	121488.00
Cum	38.65	3500.00	135275.00	38.65	135275.00
Cum	44.19	4700.00	207693.00	44.19	207693.00

12	KSRB 4.9.1: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17 / Item No. 4.46.3 / PWD SR 2014-15
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31/ PWD SR 2014-15
14	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 157 / Item No. 21.3 / PWD SR 2014-15
15	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications
16	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications
17	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries etc complete as per specifications and directions of engineer in charge of the work
18	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications Page No. 154 / Item No. 20.18 PWD SR - 2014-15.
19	Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 P. 157 / I. 21.1 PWDSR 2014-15
20	Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, Page No. 157 / Item No. 21.5 / PWD SR 2014-15
21	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (P. 157 / I. 21.2 PWDSR 2014-15)

sqm	10.62	90.00	956.00	10.62	956.00
Cum	10.27	5300.00	54431.00	10.27	54431.00
Cum	31.06	6000.00	186360.00	31.06	186360.00
Tonne	2.17	79000.00	171430.00	2.17	171430.00
sqm	110.52	250.00	27630.00	110.52	27630.00
sqm	551.00	80.00	44080.00	551.00	44080.00
Cum	140.3	1400.00	196420.00	140.3	196420.00
sqm	551.00	10.00	5510.00	551.00	5510.00
sqm	551	70.00	38570.00	551	38570.00
sqm	1050.45	3.00	3151.00	1050.45	3151.00

22	Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. (Page No. 157 / Item No. 21.7 / PWD SR 2014-15)
23	Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15
24	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)
	Total

CRTIFICATE:

1. Certified that the above work done satisfactory and no materials issued from Departmentally

sqm	1050.45	18.00	18908.00	1050.45	18908.00
Cum	46.92	8700.14	408211.00	46.92	408211.00
Cum	1415.56	70.01	99103.00	1415.56	99103.00
			4716003.00		**4716003.00**

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.